

WHAT IS CLAIMED IS:

1. A method of providing a conference call supplemental service in an intelligent network, comprising:

analyzing a call and driving a conference calling service logic program at a Service Control Point (SCP) of a communication network;

5 performing an intelligent network basic call processing function at a Service Switch Point (SSP) of the communication network;

establishing a temporary connection between the SCP and an intelligent peripheral (IP);

setting a route between the SSP and the IP;

16 announcing the service to a subscriber using the route between the SSP and the IP, and collecting and processing subscriber information.

2. The method of claim 1, further comprising dialing a service code by a requesting subscriber, translating the dialed code by an originating station, and routing the code to a Service Switch Function of the SSP with numbers of subscribers who will participate in the conference call to initiate the conference calling service.

3. The method of claim 1, wherein analyzing the call and driving a conference calling service logic program comprises sending an initial detection point message from a Service Switch Function of the SSP to a Service Control Function of the SCP.

4. The method of claim 1, wherein requesting an intelligent network basic call processing function comprises sending a request message from a Service Control Function of the SCP to a Service Switch Function of the SSP.

5. The method of claim 1, wherein establishing a temporary connection between the SCP and the IP comprises sending a request message from a Service Control Function of the SCP to a Service Switch Function of the SSP.

6. The method of claim 1, wherein setting a route between the SSP and the IP comprises sending an initial address message from a Service Switch Function (SSF) of the SSP to a Specialized Resource Function (SRF) of the IP, and sending an address complete message from the SRF to the SSF.

7. The method of claim 1, wherein announcing the service and collecting subscriber information comprises:

transmitting an Assist Request Instruction from the SRF to the SCF;

transmitting a Prompt Collect User Information command from the SCF
5 to the SRF;
sending a corresponding announcement of service guidance from the SRF
to the SSF;
collecting by the SRF digits and DTMF codes from the SSF and delivering
them to the SCF; and
10 analyzing the Collected User Information delivered to the SCF from the
SRE to provide a service needed for the subscriber.

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8. The method of claim 1, further comprising:
 - instructing a Specialized Resource Function (SRF) of the IP to record the conference call by delivering a Play and Receive Message from a Service Control Function (SCF) of the SCP to the SRF;
 - recording the conference call by the SRF;
 - sending the record of the conference call from the SRF to the SCF; and
 - storing the received record at the SCF.
9. A method of providing a conference calling supplemental service using an Intelligent Peripheral (IP) in an intelligent network, comprising:

requesting a Service Switch Function (SSF) to initiate a conference calling service;

5 sending a message from the SSF to a Service Control Function (SCF) to cause the SCF to analyze a call and drive a conference calling service logic program;

analyzing the initial detection point message and driving a conference calling service logic program at the SCF;

10 sending a message from the SCF to the SSF to request an intelligent network basic call processing function;

sending a message from the SCF to the SSF to establish a temporary connection between a Service Control Point (SCP) and an IP;

setting a route between a Service Switch Point (SSP) and an IP; and

15 providing an announcement of service to a subscriber using the route between the SSP and the IP and collecting and processing subscriber information.

10. The method of claim 9, wherein the step of setting a route between the SSP and the IP comprises:

transmitting an Initial Address Message (IAM) from the SSF to a Specialized Resource Function (SRF); and

5 transmitting an Address Complete Message or an Answer Message from the SRF to the SSF.

11. The method of claim 9, wherein the route between the SSP and the IP is used to collect information from the subscriber necessary to perform the conference calling service, and to provide an announcement service.

12. The method of claim 9, wherein providing an announcement of service and collecting subscriber information comprises:

transmitting an Assist Request Instruction from the SRF to the SCF;

transmitting a Prompt Collect User Information command from the SCF

to the SRF;

sending a corresponding announcement of service guidance from the SRF

to the SSF;

collecting by the SRF digits and DTMF codes from the SSF and delivering

them to the SCF; and

analyzing the Collected User Information delivered to the SCF from the

SRE to provide a service needed for the subscriber.

13. The method of claim 9, further comprising:

delivering a Play and Receive Message from the SCF to the SRF instructing

the SRF to record a conference call;

recording the conference call by the SRF;

receiving by the SCF the record of the conference call from the SRF; and
storing the received record by the SCF.

14. The method of claim 13, wherein the subscriber can retrieve the stored record of the conference call at any time.

15. A communication system, comprising:

a Service Control Point (SCP) coupled to a No. 7 signaling network, and
configured to analyze a call and drive a conference calling service logic program;

a Service Switching Point (SSP) coupled to the No. 7 signaling network, and
configured to perform an intelligent network basic call processing function; and

an intelligent peripheral (IP) coupled to the No. 7 signaling network,
wherein a route is established between the SSP and the IP to perform a conference calling
supplemental service using the IP.

16. The system of claim 15, wherein an initial detection point message is sent
from a Service Switch Function of the SSP to a Service Control Function of the SCP to
analyze a call and drive a conference calling service logic program.

17. The system of claim 15, wherein a request message is sent from a Service Control Function of the SCP to a Service Switch Function of the SSP to request an intelligent network basic call processing function.

18. The system of claim 15, wherein a request message is sent from a Service Control Function of the SCP to a Service Switch Function of the SSP to establish a temporary connection between the SCP and the IP.

19. The system of claim 15, wherein an initial address message is sent from a Service Switch Function (SSF) of the SSP to a Specialized Resource Function (SRF) of the IP and an address complete message is sent from the SRF to the SSF to set a route between the SSP and the IP.

20. The system of claim 15, wherein the conference calling supplemental service is announced and subscriber information is collected by transmitting an Assist Request Instruction from the SRF to the SCF, transmitting a Prompt Collect User Information command from the SCF to the SRF, sending a corresponding announcement of service guidance from the SRF to the SSF, collecting by the SRF digits and DTMF codes from the SSF and delivering them to the SCF, and analyzing the Collected User Information delivered to the SCF from the SRE to provide a service needed for the subscriber.

21. The system of claim 15, wherein the conference call is recorded by delivering
a Play and Receive Message from a Service Control Function (SCF) of the SCP to the SRF
to instruct a Specialized Resource Function (SRF) of the IP to record the conference call,
recording the conference call by the SRF sending the record of the conference call from
5 the SRF to the SCF, and storing the received record at the SCF.